



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
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OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

SEPTEMBER 10, 2001

PTAS

BRAD J. HATTENBACH  
CHERYL ARNOLD FERNE  
REPUBLIC PLAZA BUILDING  
370 SEVENTEENTH STREET  
DENVER, CO 80202



\*101768994A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/27/2001

REEL/FRAME: 011939/0666  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

NEUHAUS, HERBERT J.

DOC DATE: 06/12/2001

ASSIGNEE:

NANOPIERCE TECHNOLOGIES, INC.  
370 SEVENTEENTH STREET  
DENVER, COLORADO 80202

SERIAL NUMBER: 09812140  
PATENT NUMBER:

FILING DATE: 03/19/2001  
ISSUE DATE:

TONYA LEE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

07-06-2001

Docket No.: 5740.02

FORM PT-O-1595 (Modified)  
 (Rev. 6-93)  
 OMB No. 0651-0011 (exp. 4/94)  
 Copyright 1994-97 LegalStar  
 P08/REVO2



ET

U.S. DEPARTMENT OF COMMERCE  
 Patent and Trademark Office

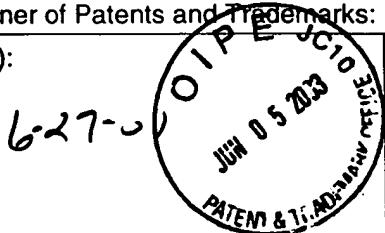
Tab settings ➡ ➡ ➡ ➡ ➡

101768994

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Herbert J. Neuhaus



Additional names(s) of conveying party(ies)

Yes  No

## 3. Nature of conveyance:

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other _____	

Execution Date: June 12, 2001

## 4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

## A. Patent Application No.(s)

09/812,140  
 filed March 19,  
 2001

## B. Patent No.(s)

Additional numbers attached?  Yes  No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Brad J. HattenbachInternal Address: Suite 4700Republic Plaza BuildingStreet Address: 370 Seventeenth StreetCity: Denver State: CO ZIP: 802026. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): ..... \$ 40.00

Enclosed - Any excess or insufficiency should be credited or debited to deposit account  
 Authorized to be charged to deposit account

## 8. Deposit account number:

04-1415

07/05/2001 LMUELLER 00000122 09812140

DO NOT USE THIS SPACE

01 FC:581

40.00 0P

## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Cheryl Arnold Ferne

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 4

ASSIGNMENT

WHEREAS, HERBERT J. NEUHAUS, residing at 770 Maroonglen Court, Colorado Springs, Colorado (the "Assignor"), has invented certain new and useful systems, devices, and methods disclosed and described in an application for Letters Patent in the United States ("U.S.") entitled "ELECTRICAL COMPONENT ASSEMBLY AND METHOD OF FABRICATION," which can be identified in the United States Patent and Trademark Office ("USPTO") under Serial Number 09/812,140, filed on 19 March 2001, (the "Patent Application"), and which claims priority to a provisional application in the U.S. entitled "ADVANCES IN MATERIALS FOR LOW COST FLIP-CHIP," Serial No. 60/220,027, filed on 21 July 2000 (the "Provisional Application") and to a nonprovisional application in the U.S. entitled "ELECTRICAL COMPONENT ASSEMBLY AND METHOD OF FABRICATION," Serial No. 09/684,238, filed on 5 October 2000 (the "Prior Application"); and

WHEREAS, NANOPIERCE TECHNOLOGIES, INC., a corporation organized and existing under the laws of the State of Nevada, and having its principal place of business at 370 Seventeenth Street, Suite 3580, Denver, Colorado 80202 (the "Assignee"), desires to acquire the entire right, title, and interest of Assignor in and to the invention, the Patent Application, the Provisional Application, the Prior Application and in, to and under any and all Letters Patent to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does sell, assign, and transfer to the Assignee, its successors, legal representatives, and assigns, the entire right, title and interest in and to the invention, the Patent Application, the Provisional Application, the Prior Application, and all divisional, continuation, continuation-in-part, continuing prosecution, and reissue applications; the Letters Patent, both foreign and domestic, that may or shall issue, or may or shall have issued, therefrom; any extensions or renewals thereof; and any right, title, or interest in and to the invention under any international conventions (collectively "the Patent Rights"); and the Assignor hereby authorizes and requests transfer and delivery of the Patent Application, the Provisional Application, the Prior Application, and any further applications, which may be or shall have been filed under the Patent Rights, to the Assignee in accordance herewith.

Assignor further authorizes said Assignee, its successors, and assigns, or anyone it may properly designate, to apply for Letters Patent in the U.S. and any and all foreign countries, in its own name if desired, and additionally to claim priority to the filing dates of the Patent Application, the Provisional Application, and the Prior Application, and otherwise take advantage of the provisions of any international conventions.

Assignor hereby authorizes Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the application number and filing date of the Patent Application once known.

Assignor further covenants and agrees that this Assignment is effective as of 21 July 2000.

Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey all right, title, and interest in the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights to a third party; and Assignor hereby covenants and agrees with the Assignee, its successors and assigns, that Assignor will not execute in writing or do any act whatsoever conflicting with these representations, and that Assignor, Assignor's successors, legal representatives, or administrators will at any time upon request, without further or additional consideration, but at the expense of the Assignee, its successors, and assigns, execute such additional writings and do such additional acts as said Assignee, its successors, and assigns, may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for, obtaining, and enforcing any of the Patent Rights, including giving testimony in any proceedings or transactions involving such Patent Rights.

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

STATE OF )  
CITY OF ) ss.  
COUNTY OF )

By: Herbert J. Neuhaus  
Herbert J. Neuhaus

Dated: 12 June 2001

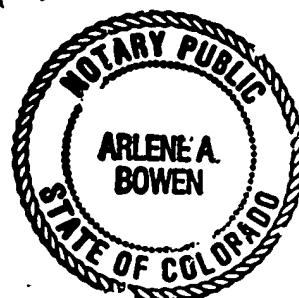
Before me, a Notary Public in and for said County and State, personally appeared HERBERT J. NEUHAUS, who executed the foregoing instrument for the purposes and considerations therein expressed.

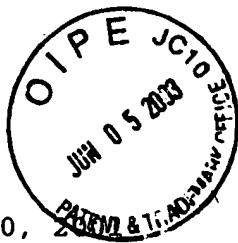
Given under my hand and seal of office this 12<sup>th</sup> day of June, 2001.

Arlene A. Bowen  
Notary Public

My Commission Expires Aug. 6, 2003

My Commission Expires: \_\_\_\_\_





UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
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OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

SEPTEMBER 10, 2001

PTAS



\*101768992A\*

BRAD J. HATTENBACH  
REPUBLIC PLAZA BUILDING  
3700 SEVENTEENTH STREET  
SUITE 4700  
DENVER, CO 80202

UNITED STATES PATENT AND TRADEMARK OFFICE  
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RECORDATION DATE: 06/27/2001

REEL/FRAME: 011940/0696

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

KENNEY, MICHAEL J.

DOC DATE: 06/20/2001

ASSIGNEE:

NANOPIERCE TECHNOLOGIES, INC.  
370 SEVENTEENTH STREET  
SUITE 3580  
DENVER, COLORADO 80202

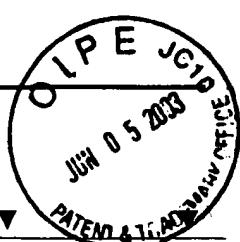
SERIAL NUMBER: 09812140

FILING DATE: 03/19/2001

PATENT NUMBER:

ISSUE DATE:

ANTIONE ROYALL, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



FORM PTO-1595 (Modified)  
(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)  
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P08/REV02

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07-06-2001



101768992

Docket No.: 5740.02

ET

**U.S. DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  Michael J. Kenney <i>4-27-01</i>		2. Name and address of receiving party(ies):  Name: <u>Nanopierce Technologies, Inc.</u>  Internal Address: <u>Suite 3580</u>  <i>4-27-01</i>
Additional names(s) of conveying party(ies) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Nature of conveyance:  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____		Street Address: <u>370 Seventeenth Street</u>  City: <u>Denver</u> State: <u>CO</u> ZIP: <u>80202</u>
Execution Date: <u>June 20, 2001</u>		Additional name(s) & address(es) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4. Application number(s) or registration numbers(s):  If this document is being filed together with a new application, the execution date of the application is: _____		
A. Patent Application No.(s)  <u>09/812,140</u> <u>filed March 19,</u> <u>2001</u>		B. Patent No.(s)
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Name and address of party to whom correspondence concerning document should be mailed:  Name: <u>Brad J. Hattenbach</u>  Internal Address: <u>Suite 4700</u>  <u>Republic Plaza Building</u>		6. Total number of applications and patents involved: <u>1</u>
		7. Total fee (37 CFR 3.41):.....\$ <u>40.00</u>
		<input checked="" type="checkbox"/> Enclosed - Any excess or insufficiency should be credited or debited to deposit account  <input type="checkbox"/> Authorized to be charged to deposit account
Street Address: <u>370 Seventeenth Street</u>		8. Deposit account number:  <u>04-1415</u>
City: <u>Denver</u> State: <u>CO</u> ZIP: <u>80202</u>		

07/05/2001 LMUELLER 00000123 09812140

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Cheryl Arnold Ferne

**Name of Person Signing**

**Signature**

7 Date

Total number of pages including cover sheet, attachments, and document:

4

**ASSIGNMENT**

WHEREAS, **MICHAEL J. KENNEY**, residing at the address indicated below (the "Assignor"), has invented certain new and useful systems, devices, and methods disclosed and described in an application for Letters Patent in the United States ("U.S.") entitled "ELECTRICAL COMPONENT ASSEMBLY AND METHOD OF FABRICATION," which can be identified in the United States Patent and Trademark Office ("USPTO") under Serial Number 09/812,140, filed on 19 March 2001, (the "Patent Application"), and to a nonprovisional application in the U.S. entitled "ELECTRICAL COMPONENT ASSEMBLY AND METHOD OF FABRICATION," Serial No. 09/684,238, filed on 5 October 2000 (the "Prior Application"); and

WHEREAS, **NANOPIERCE TECHNOLOGIES, INC.**, a corporation organized and existing under the laws of the State of Nevada, and having its principal place of business at 370 Seventeenth Street, Suite 3580, Denver, Colorado 80202 (the "Assignee"), desires to acquire the entire right, title, and interest of Assignor in and to the invention, the Patent Application, the Prior Application, and in, to and under any and all Letters Patent to be obtained therefore;

NOW, THEREFORE, for the sum of \$1,000.00 and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does sell, assign, and transfer to the Assignee, its successors, legal representatives, and assigns, the entire right, title and interest in and to the invention, the Patent Application, the Prior Application, and all divisional, continuation, continuation-in-part, continuing prosecution, and reissue applications; the Letters Patent, both foreign and domestic, that may or shall issue, or may or shall have issued, therefrom; any extensions or renewals thereof; and any right, title, or interest in and to the invention under any international conventions (collectively "the Patent Rights"); and the Assignor hereby authorizes and requests transfer and delivery of the Patent Application, the Prior Application and any further applications, which may be or shall have been filed under the Patent Rights, to the Assignee in accordance herewith.

Assignor further authorizes said Assignee, its successors, and assigns, or anyone it may properly designate, to apply for Letters Patent in the U.S. and any and all foreign countries, in its own name if desired, and additionally to claim priority to the filing date of the Patent Application and the Prior Application and otherwise take advantage of the provisions of any international conventions.

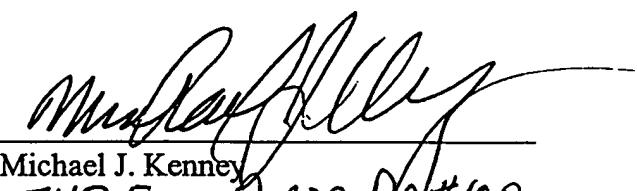
Assignor hereby authorizes Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the application number and filing date of the Patent Application once known.

Assignor further covenants and agrees that this Assignment is effective as of 21 July 2000.

Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey all right, title, and interest in the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights to a third party; and Assignor hereby covenants and agrees with the Assignee, its successors and assigns, that Assignor will not execute in writing or do any act whatsoever conflicting with these representations, and that Assignor, Assignor's successors, legal representatives, or administrators will at any time upon request, without further or additional consideration, but at the expense of the Assignee, its successors, and assigns, execute such additional writings and do such additional acts as said Assignee, its successors, and assigns, may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for, obtaining, and enforcing any of the Patent Rights, including giving testimony in any proceedings or transactions involving such Patent Rights.

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

STATE OF *MN* )  
CITY OF *Anoka* ) ss.  
COUNTY OF *Anoka* )

By:   
Michael J. Kenney  
Address: 749 EAST RIVER RD #100  
ANOKA MN 55303

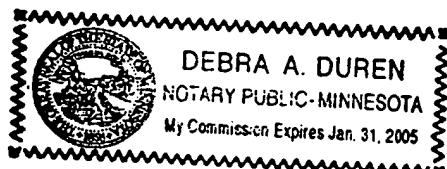
Dated: 06 20 2001

Before me, a Notary Public in and for said County and State, personally appeared MICHAEL J. KENNEY, who executed the foregoing instrument for the purposes and considerations therein expressed.

Given under my hand and seal of office this 20<sup>th</sup> day of June, 2001.

Debra A. Duren  
Notary Public

My Commission Expires: 1-31-05





UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

SEPTEMBER 14, 2001

PTAS



\*101843418A\*

BRAD J. HATTENBACH  
SUITE 4700  
REPUBLIC PLAZA BUILDING  
370 SEVENTEENTH STREET  
DENVER, CO 80202

UNITED STATES PATENT AND TRADEMARK OFFICE  
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RECORDATION DATE: 06/27/2001

REEL/FRAME: 011954/0271

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

WERNLE, MICHAEL E.

DOC DATE: 06/06/2001

ASSIGNEE:

NANOPIERCE TECHNOLOGIES, INC.  
370 SEVENTEENTH STREET  
SUITE 3580  
DENVER, COLORADO 80202

SERIAL NUMBER: 09812140

FILING DATE: 03/19/2001

PATENT NUMBER:

ISSUE DATE:

DOROTHY BASMA, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

09-13-2001

Docket No.: 5740.02

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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Offic



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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Michael E. Wernle

L2701



Additional names(s) of conveying party(ies)

Yes  No

3. Nature of conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: June 6, 2001

2. Name and address of receiving party(ies):

Name: Nanopierce Technologies, Inc.

Internal Address: Suite 3580

JUN 27 2001

Street Address: 370 Seventeenth Street

City: Denver State: CO ZIP: 80202

Additional name(s) & address(es) attached? Yes  No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

09/812,140  
filed March 19,  
2001

B. Patent No.(s)

Additional numbers attached?  Yes  No

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Name: Brad J. Hattenbach

Internal Address: Suite 4700

Republic Plaza Building

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): .....\$ 40.00

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 Authorized to be charged to deposit account

8. Deposit account number:

04-1415

Street Address: 370 Seventeenth Street

City: Denver State: CO ZIP: 80202

07/05/2001 LMUELLER 00000124 09812140

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41 FC:501

40.00 00

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Cheryl Arnold Ferne

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 4

## ASSIGNMENT

WHEREAS, **MICHAEL E. WERNLE**, residing at Ottobrunner Straffe 76, D/85635, Hohenkirchen, Germany (the "Assignor"), has invented certain new and useful systems, devices, and methods disclosed and described in an application for Letters Patent in the United States ("U.S.") entitled "ELECTRICAL COMPONENT ASSEMBLY AND METHOD OF FABRICATION," which can be identified in the United States Patent and Trademark Office ("USPTO") under Serial Number 09/812,140, filed on 19 March 2001, (the "Patent Application"), and which claims priority to two provisional applications in the U.S. entitled "ADVANCES IN MATERIALS FOR LOW COST FLIP-CHIP," Serial No. 60/220,027, filed on 21 July 2000, and "MANUFACTURING OF LOW COST SMART LABELS," Serial No. 60/233,561, filed 19 September 2000 (the "Provisional Applications"); and

WHEREAS, **NANOPIERCE TECHNOLOGIES, INC.**, a corporation organized and existing under the laws of the State of Nevada, and having its principal place of business at 370 Seventeenth Street, Suite 3580, Denver, Colorado 80202 (the "Assignee"), desires to acquire the entire right, title, and interest of Assignor in and to the invention, the Patent Application, the Provisional Applications, and in, to and under any and all Letters Patent to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does sell, assign, and transfer to the Assignee, its successors, legal representatives, and assigns, the entire right, title and interest in and to the invention, the Patent Application, the Provisional Applications, and all divisional, continuation, continuation-in-part, continuing prosecution, and reissue applications; the Letters Patent, both foreign and domestic, that may or shall issue, or may or shall have issued, therefrom; any extensions or renewals thereof; and any right, title, or interest in and to the invention under any international conventions (collectively "the Patent Rights"); and the Assignor hereby authorizes and requests transfer and delivery of the Patent Application, the Provisional Applications, and any further applications, which may be or shall have been filed under the Patent Rights, to the Assignee in accordance herewith.

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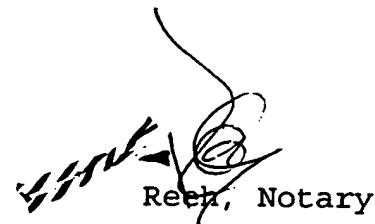
By:   
Michael E. Wernle

Dated: 6 June 2001

File No. 5161 2001 K

I hereby certify that the above is the true signature,  
subscribed in my presence of  
Mr. Michael Erich W e r n l e ,  
born on 03.05.1962 at Wien/Austria,  
residing in D Ottobrunner Str. 76,  
85635 Höhenkirchen-Siegertsbrunn,  
identified by passport No. G 0166676

Munich, this 6th day of Juni, 2001



Reeh, Notary